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UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY—Circular No. 100

# COMMERCIAL STOCKS OF WHEAT AND FLOUR

IN THE UNITED STATES

ON AUGUST 31, 1917



Contribution from the Bureau of Markets  
CHARLES J. BRAND, Chief

WASHINGTON, FEBRUARY 28, 1918

**T**OTAL commercial stocks of wheat in the United States on August 31, 1917, the date of the preliminary War Emergency Food Survey, were approximately 75,000,000 bushels, representing less than a two-months' supply. Of the stocks reported, more than four-fifths was held by elevators, mills, and wholesale grain dealers.

The West North Central division of states, reported about one-third of the stocks of the entire country, while the East North Central and the Pacific divisions each reported about one-fifth of the total.

About five-sixths of the reports, based on quantity reported, gave data not only for August 31, 1917, but also for the corresponding date of 1916. From these two-year reports it appears that the stocks of August 31, 1917, were only 36.9 per cent of the stocks on hand August 31, 1916.

Total commercial stocks of flour in the United States on August 31, 1917, based on estimates from the survey, were about 12,000,000 pounds. This represents approximately a six-weeks' supply.

The largest stocks of flour were reported by the group of flour mills, elevators and wholesale grain dealers, which held a total of 3,633,653 barrels. Retail dealers held 2,456,826 barrels, and bakers 1,999,583 barrels. Five states held one-third of the total stocks of flour. These in order of their holdings were: New York, Pennsylvania, Illinois, Nebraska, and California.

The stocks reported for August 31, 1917, were 75.7 per cent of those for August 31, 1916. The decrease in holdings was general among all groups and classes of concerns.

Detailed information concerning the stocks of wheat and flour in commercial channels on August 31, 1917, is presented in the following pages.

# COMMERCIAL STOCKS OF WHEAT AND FLOUR IN THE UNITED STATES ON AUGUST 31, 1917.

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## COMMERCIAL STOCKS OF WHEAT.

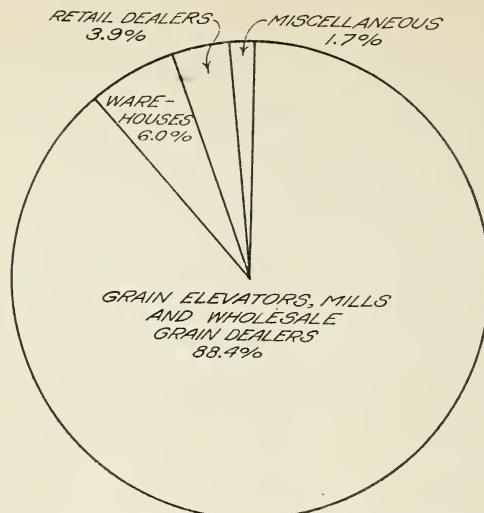
**I**NFORMATION regarding the stocks of wheat in commercial channels in the United States was obtained through the War Emergency Food Survey of August 31, 1917. The total amount of wheat reported as on hand on the date of the survey was 66,253,907 bushels. The reported stocks are believed to represent from 85 to 90 per cent of the total quantity in the hands of all business concerns, from which it may be concluded that the total commercial stocks were approximately 75,000,000 bushels on the date of the survey. On that date the 1916 stocks had been largely disposed of or turned into flour, and a relatively small part of the 1917 crop had entered commercial channels.

On the basis of the rate of consumption of wheat in the United States during the year ending June 30, 1917, which was 10 per cent lower than the normal or average consumption of previous years and which amounted roughly to 41,000,000 bushels per month, the stocks of wheat on August 31, 1917, represented less than a two months' supply. This does not include the wheat converted into flour, the stocks of which are considered separately in this circular; neither does it include the stocks of wheat remaining on the farms, for which no satisfactory estimate is available.

Of the total 1917 stocks reported by the several groups and classes of dealers, as shown in Table 1, the grain elevators, mills, and wholesale dealers held nearly 59,000,000 bushels, or about 88 per cent. The distribution of stocks among the various groups of firms reporting is graphically represented in Diagram 1.

Note.—The material in this circular was prepared under the direction of Mr. C. W. Thompson by the War Emergency Food Survey Section of the Bureau of Markets.

DIAGRAM 1.—DISTRIBUTION OF TOTAL STOCKS OF WHEAT REPORTED FOR AUGUST 31, 1917.



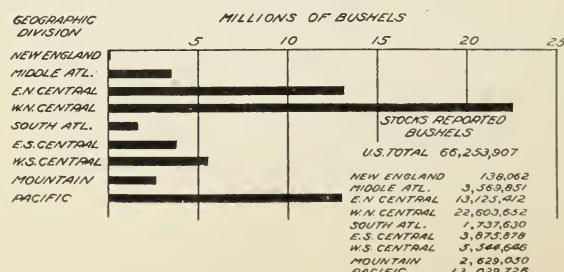
STOCKS REPORTED (Bushels).	
TOTAL.....	66,253,907
Elevators, mills, and wholesale grain dealers	58,569,393
Warehouses.....	3,948,565
Retail dealers.....	2,609,645
Miscellaneous.....	1,126,304

Table 2 shows the number of schedules received from the groups and classes of dealers handling wheat, and also the number of such schedules reporting wheat on hand on the date of this survey.

#### GEOGRAPHIC DISTRIBUTION OF TOTAL STOCKS.

The total 1917 stocks reported by the important groups of firms are shown in Table 3 by geographic divisions and by states. The stocks reported for each geographic division are shown graphically in Diagram 2.

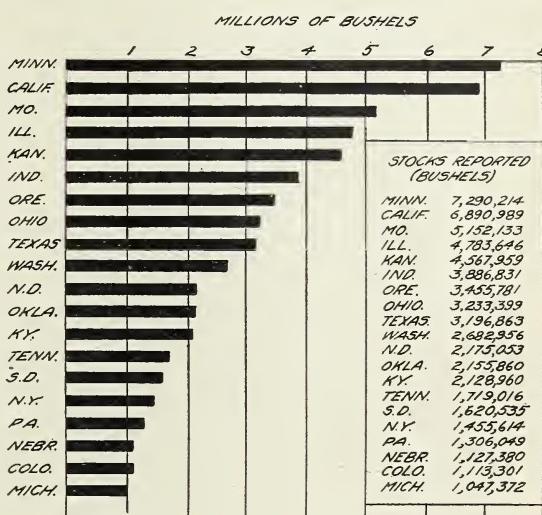
DIAGRAM 2.—TOTAL STOCKS OF WHEAT REPORTED FOR AUGUST 31, 1917—  
GEOGRAPHIC DISTRIBUTION.



The stocks of wheat reported for the West North Central division, amounting to over 22,000,000 bushels, represent about one-third of the United States total. The East North Central and Pacific divisions, each of which reported over 13,000,000 bushels, rank next in importance.

The data presented for individual states indicate that the West North Central division held its high rank largely by virtue of the holdings of Minnesota, Missouri, and Kansas, these three states together reporting over 17,000,000 bushels, or about 75 per cent of the total for the geographic division and more than 25 per cent of the total for the entire country. From Diagram 3, which shows graphically the stocks reported for the 20

DIAGRAM 3.—TOTAL STOCKS OF WHEAT REPORTED FOR THE 20 MOST IMPORTANT STATES.



states reporting the largest wheat stocks, it will be seen that Minnesota and California lead, these states showing holdings of 7,290,000 bushels and 6,891,000 bushels, respectively. Missouri, Illinois, and Kansas follow, with approximately 5,000,000 bushels each. The combined holdings of the five states just mentioned amounted to 28,000,000 bushels, or more than 43 per cent of the United States total.

#### HOLDINGS OF ELEVATORS, MILLS, AND WHOLESALE GRAIN DEALERS.

Attention already has been called to the fact that the group designated elevators, mills, and wholesale grain dealers comprises the important holders of wheat, this group reporting a total of nearly 59,000,000 bushels or 88 per cent of the total for the United States. (See Diagram 1.) A comparison of the first two columns of Table 3 indicates that the stocks held by this group constitute a very large part of the stocks reported for most of the individual states, as well as of the United States total. To

cite a few instances, 99.4 per cent of Minnesota wheat stocks, 94.2 per cent of Missouri stocks, and 94.8 per cent of Texas stocks were reported by elevators, mills, and wholesale grain dealers.

#### STOCKS HELD BY WAREHOUSES AND RETAIL DEALERS.

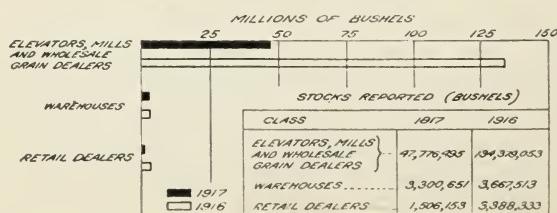
As may be further seen from Table 3, the stocks of wheat in warehouses, amounting to a little less than 4,000,000 bushels, were located almost exclusively in the Pacific States. This situation is doubtless explained by the fact that in this region wheat is still handled mainly in sacks instead of in bulk, as is the prevailing practice elsewhere in the United States.

The 1917 stocks held by retail dealers are given by geographic divisions and by states in Table 4. Analysis of these data shows that of the group total, amounting to 2,609,645 bushels, or 3.9 per cent of the United States total, the retail grain and flour dealers reported 1,654,800 bushels, or 63.4 per cent. The general stores held only 27.5 per cent of the group total and the retail grocers only 9.1 per cent. In the geographic distribution of the total retail stocks the East North Central division leads, with the West North Central and the Pacific divisions next. It may be noted in this connection that the two geographic divisions which rank lowest in total wheat stocks—the New England and the South Atlantic—have relatively large amounts of wheat in the hands of retail dealers.

#### COMPARATIVE FIGURES FOR 1917 AND 1916.

The comparative figures for August 31, 1917, and August 31, 1916, given in Table 5 and based on the reports from those firms that gave data for the two years, show a heavy decline in the total holdings of wheat reported by each of the several groups of firms, as well as in the United States totals. Comparing the totals for the two years, it appears that the 1917 total is less than 37 per cent of the 1916 total. On the basis of an estimated total of 75,000,000 bushels for August 31, 1917, the corresponding figure for a year earlier would be approximately 203,000,000 bushels. The elevators, mills, and wholesale grain dealers, the most important group, show 1917 holdings amounting to only 35.6 per cent of those of 1916, the warehouses show 90.0 per cent, the wholesale grocers 49.7 per cent, and the retail dealers 44.5 per cent. These facts are graphically presented in Diagram 4, which shows a significantly large relative

DIAGRAM 4.—STOCKS OF WHEAT REPORTED FOR AUGUST 31, 1917, AND AUGUST 31, 1916, BY IMPORTANT GROUPS OF FIRMS.

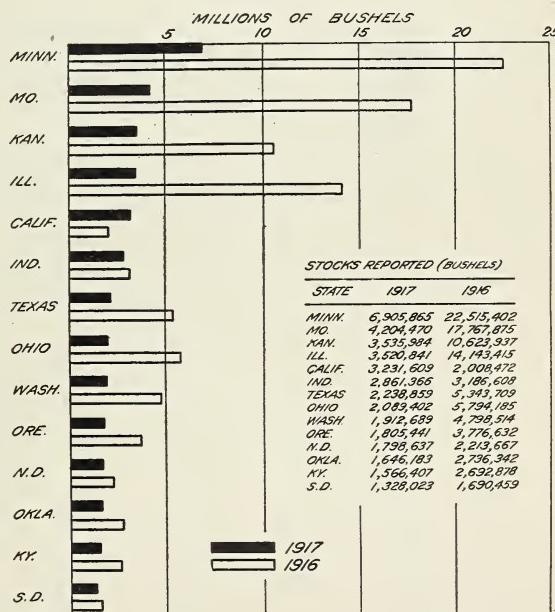


drop in elevator holdings in 1917, with warehouse holdings practically equal for the two years.

When the data for geographic divisions are considered, the same heavy decline appears throughout the country. The holdings of the West North Central division, comprising the leading wheat states, dropped in 1917 to 30 per cent of the 1916 stocks. The reports from other divisions indicate 1917 holdings of from 20 per cent on the one extreme to 72 per cent on the other, of the 1916 stocks.

The almost uniform heavy reduction in the stocks of the elevators, mills, and the wholesale grain dealers in the 14 states reporting largest stocks of wheat is graphically presented in Diagram 5. California, it may be noted, is the only state to show an increase in 1917 stocks as compared with those of 1916.

DIAGRAM 5.—STOCKS OF WHEAT REPORTED FOR AUGUST 31, 1917, AND AUGUST 31, 1916,  
BY GRAIN ELEVATORS, MILLS, AND WHOLESALE GRAIN DEALERS, FOR  
THE 14 MOST IMPORTANT STATES.



## TABLES.

TABLE I.—*Stocks of Wheat Reported for August 31, 1917, with Comparative Figures for 1917 and 1916—United States Totals.*  
 [Food Survey of August 31, 1917.]

Class of business.	Comparative figures—from firms reporting for both 1917 and 1916.		
	Total stocks reported for August 31, 1917.	1917 stocks.	1916 stocks.
	Bushels.	Bushels.	Bushels.
Total .....	63,263,907	53,522,289	36,491
Elevators, mills, and wholesale grain dealers .....	58,569,393	47,776,495	35,613
Warehouses .....	3,948,565	3,300,651	90,000
Retail dealers .....	2,669,615	1,506,153	44,533
Retail grain and flour dealers .....	1,634,847	937,710	36,633
Retail grocers .....	237,959	141,385	112,645
General stores .....	717,139	377,058	67,287
Miscellaneous .....	1,126,304	938,990	24,793
			3,807,793

TABLE 2.—*Number of Firms Reporting Wheat—United States Totals, by Class of Business.*  
 [Food Survey of August 31, 1917.]

Class of business.	Number of OK schedules received from classes of business handling wheat.	Firms reporting wheat.	
		Number.	Per cent of total OK schedules.
Total .....	102,660	21,070	20.5
Elevators, mills, and wholesale grain dealers .....	15,086	11,485	73.2
Warehouses .....	824	206	25.0
Retail dealers .....	75,876	8,619	11.4
Retail grain and flour dealers .....	5,294	2,652	50.4
Retail grocers .....	43,726	3,258	7.5
General stores .....	26,856	2,709	10.1
Miscellaneous .....	10,274	760	7.4

TABLE 3.—*Stocks of Wheat on Hand August 31, 1917—Statement for Important Groups of Firms, by Geographic Divisions and States.*

[Food Survey of August 31, 1917.]

Geographic division and state.	Grand total, <sup>1</sup>	Elevators, mills, and wholesale grain dealers.	Warehouses.	Retail dealers. <sup>2</sup>
	Bushels.	Bushels.	Bushels.	Bushels.
United States . . . . .	66,253,907	58,569,393	3,948,565	2,609,645
<b>Geographic divisions:</b>				
New England . . . . .	138,062	79,349	30	45,483
Middle Atlantic . . . . .	3,569,851	3,072,340	73,515	235,283
East North Central . . . . .	13,125,412	11,990,014	4,931	602,533
West North Central . . . . .	22,603,652	21,940,015	1,068	564,235
South Atlantic . . . . .	1,737,630	1,520,055	11,765	121,529
East South Central . . . . .	3,875,878	3,695,326	35,735	103,572
West South Central . . . . .	5,544,646	5,295,067	3,428	217,873
Mountain . . . . .	2,629,050	2,298,923	37,933	257,133
Pacific . . . . .	13,029,726	8,678,301	3,780,160	462,004
<b>New England:</b>				
Maine . . . . .	4,184	2,706	....	1,361
New Hampshire . . . . .	12,848	6,730	....	4,778
Vermont . . . . .	16,664	4,952	....	3,980
Massachusetts . . . . .	80,524	54,434	30	22,435
Rhode Island . . . . .	8,543	4,093	....	4,440
Connecticut . . . . .	15,299	6,434	....	8,539
<b>Middle Atlantic:</b>				
New York . . . . .	1,455,614	1,251,672	3,180	52,712
New Jersey . . . . .	808,188	746,863	54	50,451
Pennsylvania . . . . .	1,306,049	1,073,805	70,281	132,120
<b>East North Central:</b>				
Ohio . . . . .	3,233,399	2,912,307	1,200	153,603
Indiana . . . . .	3,886,831	3,744,647	50	133,571
Illinois . . . . .	4,783,646	4,419,899	1,614	258,106
Michigan . . . . .	1,047,372	806,788	1,907	37,179
Wisconsin . . . . .	174,164			20,074
				160

<b>West North Central:</b>	
Minnesota.....	7,248,833
Iowa.....	620,802
Iowa.....	28
Missouri.....	4,855,083
North Dakota.....	2,140,732
North Dakota.....	30,610
South Dakota.....	1,570,646
South Dakota.....	48,716
Nebraska.....	1,115,558
Nebraska.....	11,042
Kansas.....	4,388,364
Kansas.....	139,511
<b>South Atlantic:</b>	
Delaware.....	33,295
Maryland.....	634,752
District of Columbia.....	9,842
Virginia.....	548,386
West Virginia.....	71,025
North Carolina.....	152,431
South Carolina.....	10,193
Georgia.....	58,410
Florida.....	1,811
<b>East South Central:</b>	
Kentucky.....	2,026,863
Tennessee.....	1,657,395
Tennessee.....	4,900
Alabama.....	9,866
Alabama.....	2,598
Mississippi.....	1,002
Mississippi.....	8,986
<b>West South Central:</b>	
Arkansas.....	177,969
Louisiana.....	2,084,231
Oklahoma.....	3,032,867
Texas.....	3,428
<b>Mountain:</b>	
Montana.....	507,751
Idaho.....	416,212
Wyoming.....	24,170
Colorado.....	1,070,133
Colorado.....	30
Wyoming.....	477
Wyoming.....	32,581
Colorado.....	59,401
New Mexico.....	1,044
Arizona.....	51,130
Utah.....	150,081
Nevada.....	20,045
<b>Pacific:</b>	
Washington.....	2,243,806
Oregon.....	2,121,062
California.....	4,313,433
Pacific.....	2,140,526

The grand total includes 1,126,304 bushels of wheat reported by miscellaneous classes of business.

## COMMERCIAL STOCKS OF WHEAT AND FLOUR.

TABLE 4.—*Stocks of Wheat on Hand August 31, 1917—Statement for Retail Dealers, by Geographic Divisions and States.*

Food Survey of August 31, 1917.]

Geographic division and state.	Group total. <i>Bushels.</i>	Retail grain and flour dealers. <i>Bushels.</i>	Retail grocers. <i>Bushels.</i>	General stores. <i>Bushels.</i>
United States.....	2,609,645	1,654,847	237,659	717,139
<b>Geographic Divisions:</b>				
New England.....	45,483	37,996	2,525	4,962
Middle Atlantic.....	235,283	194,305	19,618	21,360
East North Central.....	602,533	464,322	23,082	115,129
West North Central.....	564,235	387,058	37,855	129,322
South Atlantic.....	121,529	77,879	15,313	28,337
East South Central.....	103,572	55,330	4,318	43,924
West South Central.....	217,873	132,272	20,817	64,784
Mountain.....	257,133	90,898	16,720	149,515
Pacific.....	462,004	204,787	97,411	159,806
<b>New England:</b>				
Maine.....	1,361	884	58	419
New Hampshire.....	4,778	3,590	571	617
Vermont.....	3,930	1,124	18	2,788
Massachusetts.....	22,435	20,574	1,123	738
Rhode Island.....	4,440	4,204	180	56
Connecticut.....	8,539	7,620	575	344
<b>Middle Atlantic:</b>				
New York.....	52,712	46,348	3,864	2,500
New Jersey.....	50,451	40,663	7,531	2,257
Pennsylvania.....	132,120	107,294	8,223	16,603
<b>East North Central:</b>				
Ohio.....	153,603	123,934	5,931	23,738
Indiana.....	133,571	117,967	5,320	10,284
Illinois.....	258,106	173,834	7,525	76,747
Michigan.....	37,179	32,413	2,226	2,540
Wisconsin.....	20,074	16,174	2,080	1,820

	<b>West North Central:</b>	
Minnesota.....	30,430	2,916
Iowa.....	23,980	2,911
Missouri.....	27,946	5,766
North Dakota.....	30,610	6,1758
South Dakota.....	48,716	3,543
Nebraska.....	11,042	2,582
Kansas.....	139,511	2,988
<b>South Atlantic:</b>		49,769
Delaware.....	5,378	1,450
Maryland.....	19,056	2,003
District of Columbia.....	128	4,843
Virginia.....	32,843	7,054
West Virginia.....	2,592	1,372
North Carolina.....	14,650	969
South Carolina.....	4,053	3,899
Georgia.....	42,231	1,128
Florida.....	598	4,066
<b>East South Central:</b>		4,777
Kentucky.....	55,431	10,213
Tennessee.....	36,557	118
Alabama.....	2,598	21,007
Mississippi.....	8,986	5,266
<b>West South Central:</b>		5,266
Arkansas.....	12,455	701
Louisiana.....	430	4,155
Oklahoma.....	60,950	2,969
Texas.....	144,038	508
<b>Mountain:</b>		508
Montana.....	38,289	337
Idaho.....	81,501	338
Wyoming.....	4,736	337
Colorado.....	32,581	338
New Mexico.....	41,018	338
Arizona.....	37,041	27,256
Utah.....	18,331	2,777
Nevada.....	10,574	7,925
<b>Pacific:</b>		1,850
Washington.....	40,945	1,850
Oregon.....	78,054	6,893
California.....	343,005	6,893
		12,360
		36,869
		6,364
		5,158
		1,810
		10,308
		20,611
		128,887
		90,084

TABLE 5.—*Comparative Figures<sup>1</sup>—Statement for Important Groups of Firms, by Geographic Divisions and States.*  
 (SECTION ONE)  
 Food Survey of August 31, 1917.]

Geographic division and state.	Grand total. <sup>2</sup>		Elevators, mills, and wholesale grain dealers.	
	1917.	1916.	1917.	1916.
<i>United States . . . . .</i>	<i>Bushels.</i> 53,522,291	<i>Bushels.</i> 145,242,692	<i>Bushels.</i> 47,776,495	<i>Bushels.</i> 134,379,053
<b>Geographic divisions:</b>				
New England . . . . .	101,955	508,650	70,931	466,264
Middle Atlantic . . . . .	2,936,072	17,549,937	2,617,148	16,165,914
East North Central . . . . .	9,840,623	28,008,642	8,988,104	24,981,529
West North Central . . . . .	19,578,317	63,438,021	19,170,600	62,610,975
South Atlantic . . . . .	1,272,211	2,744,232	1,158,823	2,513,650
East South Central . . . . .	2,956,463	4,724,032	2,857,423	4,304,716
West South Central . . . . .	4,154,386	9,196,183	4,005,852	8,392,485
Mountain . . . . .	2,227,986	4,673,002	1,957,875	4,159,902
Pacific . . . . .	10,454,276	14,399,993	6,949,739	10,583,618
<b>New England:</b>				
Maine . . . . .	2,550	4,335	1,820	1,889
New Hampshire . . . . .	7,068	7,814	5,382	6,120
Vermont . . . . .	13,308	13,761	4,585	4,417
Massachusetts . . . . .	64,263	467,720	50,032	444,110
Rhode Island . . . . .	7,564	6,820	4,053	4,837
Connecticut . . . . .	7,202	8,200	5,059	4,891
<b>Middle Atlantic:</b>				
New York . . . . .	1,224,038	12,871,921	1,065,526	11,729,029
New Jersey . . . . .	755,774	2,307,248	731,470	2,327,511
Pennsylvania . . . . .	956,260	2,310,768	820,152	2,109,374
<b>East North Central:</b>				
Ohio . . . . .	2,343,924	6,140,161	2,089,402	5,794,185
Indiana . . . . .	2,921,552	3,282,016	2,891,366	3,186,608
Illinois . . . . .	3,807,051	16,579,239	3,520,841	14,143,415
Michigan . . . . .	635,470	1,232,663	432,219	1,124,968
Wisconsin . . . . .	114,626	774,563	84,276	732,353

<b>West North Central:</b>						
Minnesota.....	6,936,893	22,747,169	6,905,865	22,515,402		
Iowa.....	541,180	1,401,511	510,117	1,340,747		
Missouri.....	4,387,027	17,979,799	4,204,470	17,767,875		
North Dakota.....	1,815,848	2,225,594	1,798,637	2,213,667		
South Dakota.....	1,351,581	1,720,139	1,328,023	1,690,459		
Nebraska.....	895,143	6,510,235	887,504	6,458,888		
Kansas.....	3,650,645	10,853,194	3,535,984	10,623,357		
<b>South Atlantic:</b>						
Delaware.....	25,455	32,351	19,151	23,300		
Maryland.....	529,753	1,666,079	513,196	1,560,241		
District of Columbia.....	10,352	6,785	9,842	6,000		
Virginia.....	511,079	789,316	445,247	695,640		
West Virginia.....	30,711	52,530	26,887	48,308		
North Carolina.....	122,308	133,228	113,789	126,042		
South Carolina.....	9,128	9,131	3,694	5,075		
Georgia.....	29,164	48,265	25,899	47,375		
Florida.....	4,261	6,547	1,118	1,159,		
<b>East South Central:</b>						
Kentucky.....	1,622,035	2,784,076	1,566,407	2,692,878		
Tennessee.....	1,319,864	1,924,554	1,287,112	1,806,211		
Alabama.....	6,669	8,520	3,604	4,427		
Mississippi.....	7,895	6,882	300	1,200		
<b>West South Central:</b>						
Arkansas.....	128,398	319,719	120,810	312,434		
Louisiana.....	167	110	...	...		
Oklahoma.....	1,684,073	2,827,480	1,646,183	2,736,342		
Texas.....	2,341,148	6,048,874	2,238,859	5,343,709		
<b>Mountain:</b>						
Montana.....	448,263	1,241,411	420,189	1,201,296		
Idaho.....	450,753	727,321	351,187	602,550		
Wyoming.....	25,382	101,177	21,090	87,708		
Colorado.....	976,042	1,959,834	940,851	1,794,75		
New Mexico.....	98,580	51,677	56,779	5,127		
Arizona.....	92,757	220,058	46,435	120,568		
Utah.....	113,895	275,830	101,299	255,667		
Nevada.....	22,314	95,694	20,045	92,581		
<b>Pacific:</b>						
Washington.....	2,207,551	5,576,715	1,912,689	4,798,514		
Oregon.....	3,078,632	5,319,713	1,805,441	3,776,632		
California.....	5,168,103	3,503,565	3,231,609	2,008,472		

<sup>1</sup> Based on returns from concerns reporting for both 1917 and 1916.<sup>2</sup> Includes wheat reported by miscellaneous classes of business as follows: For 1917, 890,617 bushels; for 1916, 3,710,451 bushels.

TABLE 5.—Comparative Figures—Statement for Important Groups of Firms, by Geographic Divisions and States—Continued.  
 (Section Two)  
 (Food Survey of August 31, 1917.)

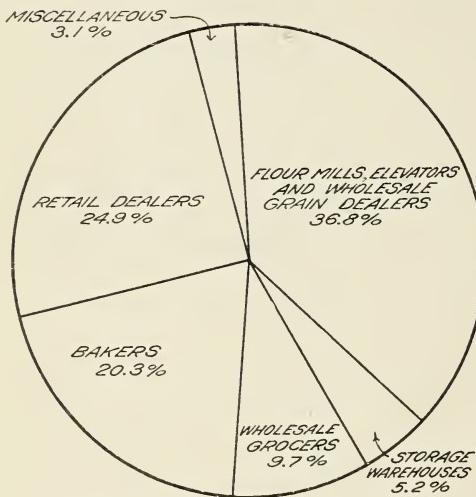
Geographic division and state,	Warehouses,			Retail dealers,	
	1917.	1916.	Bushels.	1917.	Bushels.
United States.....	3,300,651	3,667,513	Bushels.	1,506,153	Bushels.
<b>Geographic divisions:</b>					
New England.....	30	50		20,548	29,747
Middle Atlantic.....	69,610	91,281		103,039	293,481
East North Central.....	2,519	2,860		375,364	621,273
West North Central.....	1,068	2,400		327,066	693,375
South Atlantic.....	5,182	86,914		45,602	62,778
East South Central.....	20,941	27,914		60,997	168,627
West South Central.....	2,112	1,882		124,025	759,043
Mountain.....	36,937	23,270		203,532	448,765
Pacific.....	3,162,172	3,430,944		245,980	311,244
<b>New England:</b>					
Maine.....	....	....		644	2,440
New Hampshire.....	....	....		1,686	1,694
Vermont.....	....	....		959	1,050
Massachusetts.....	30	50		11,713	19,401
Rhode Island.....	....	....		3,503	1,953
Connecticut.....	....	....		2,043	3,209
<b>Middle Atlantic:</b>					
New York.....	3,150	18,263		35,923	178,035
New Jersey.....	....	....		16,307	25,498
Pennsylvania.....	66,460	73,018		50,809	89,948
<b>East North Central</b>					
Ohio.....	1,200	500		99,232	195,001
Indiana.....	....	....		53,475	70,947
Illinois.....	1,229	2,290		188,280	272,497
Michigan.....	170	70		23,642	51,986
Wisconsin.....	....	....		10,735	30,842

<b>West North Central:</b>		
Minnesota.....	222,756	22,065
Iowa.....	22,186	12,451
Missouri.....	176,412	168,233
North Dakota.....	9,580	14,200
South Dakota.....	29,080	22,385
Nebraska.....	11,677	7,102
Kansas.....	221,684	80,570
<b>South Atlantic:</b>		
Delaware.....	3,816	3,816
Maryland.....	7,197	5,481
District of Columbia.....	320	110
Virginia...	41,102	23,025
West Virginia.....	1,651	1,212
North Carolina.....	5,656	7,123
South Carolina.....	2,336	3,217
Georgia...	342	1,317
Florida.....	558	301
<b>East South Central:</b>		
Kentucky.....	61,047	33,883
Tennessee.....	100,345	21,226
Alabama.....	2,693	1,591
Mississippi.....	4,442	4,297
<b>West South Central:</b>		
Arkansas.....	7,210	7,134
Louisiana.....	110	42
Oklahoma.....	71,925	29,532
Texas.....	680,098	87,317
<b>Mountain:</b>		
Montana.....	27,978	22,760
Idaho.....	105,121	64,350
Wyoming.....	13,379	4,262
Colorado.....	155,896	27,459
New Mexico.....	42,866	36,105
Arizona.....	80,455	33,916
Utah.....	20,082	12,411
Nevada.....	2,988	2,269
<b>Pacific:</b>		
Washington.....	36,646	739,097
Oregon...	48,912	1,489,674
California.....	225,686	1,202,173

COMMERCIAL STOCKS OF FLOUR.<sup>1</sup>

Reports for the War Emergency Food Survey of August 31, 1917, show stocks of flour on this date of 10,092,980 barrels. It is estimated that this figure represents 80 to 90 per cent of the total commercial holdings of flour and that therefore total stocks on this date were approximately 12,000,000 barrels. On the basis of an annual consumption of one barrel per capita, this quantity represents about a six weeks' supply in trade channels. Of the total holdings reported, as may be seen from Table 6, flour mills, elevators, and wholesale grain dealers held 3,633,653 barrels, or 36.8 per cent; retail dealers held 2,456,826 or 24.9 per cent; bakers, 1,999,583 or 20.3 per cent; wholesale grocers, 958,628 or 9.7 per cent;

DIAGRAM 6.—DISTRIBUTION OF TOTAL STOCKS OF FLOUR REPORTED FOR AUGUST 31, 1917.



STOCKS REPORTED (Barrels).	
TOTAL.....	9,869,980
Flour mills, etc.....	3,633,653
Storage warehouses.....	514,929
Wholesale grocers.....	958,628
Bakers.....	1,999,583
Retail dealers.....	2,456,826
Miscellaneous.....	306,361

storage warehouses, 514,926 or 5.2 per cent; and a miscellaneous group of concerns, 306,361 or 3.1 per cent. The relative holdings of these groups of concerns are represented graphically in Diagram 6.

The number of schedules received from concerns belonging to those groups of business firms that usually handle flour was 133,809. Of these

<sup>1</sup> The term flour as used in this circular means wheat flour, including patents and straights, first and second clear, low grades, and whole-wheat and graham flour.

concerns, as shown in Table 7, 92,974 reported stocks on hand at the date of the survey. Out of 15,686 flour mills, elevators, and wholesale grain dealers, 7,711 or 49 per cent reported stocks of flour on hand. Among the other groups of concerns reporting, those holding stocks of flour included 38.9 per cent of the storage warehouses, 62.0 per cent of the wholesale grocers, 95.4 per cent of the bakers, 77.7 per cent of the retail dealers, and 28.3 per cent of a miscellaneous group of concerns.

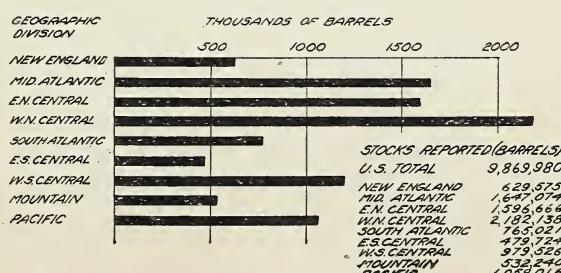
#### GEOGRAPHIC DISTRIBUTION OF TOTAL STOCKS.

The West North Central group of states reported 2,182,138 barrels of flour on hand or about 20 per cent of total stocks for the whole country. Of this total, 1,593,497 barrels were held by three states in the group of seven, Nebraska reporting 634,915 barrels, Minnesota, 489,438 barrels and Missouri, 469,144 barrels. Kansas and Iowa each reported holdings of more than 200,000 barrels. The holdings by geographic divisions as well as by states is shown in Table 8.

The Middle Atlantic division ranks second in stocks reported, with 1,647,074 barrels, about half of which were reported from New York and two-fifths from Pennsylvania. Holdings by bakers were the largest among the different groups of concerns in these two states. Stocks in New Jersey were 174,740 barrels or about one-ninth of the total stocks for this group of states.

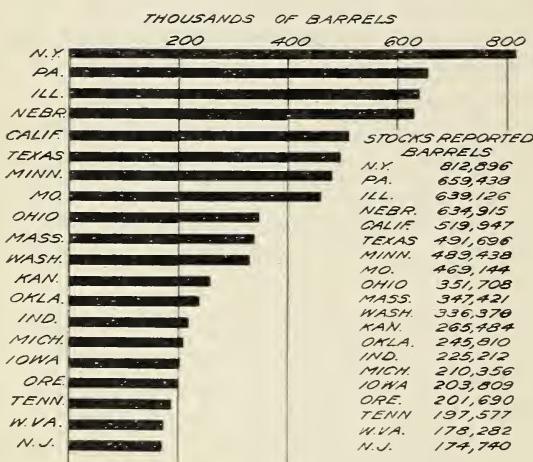
The East North Central division of states, with 1,596,666 barrels ranked third. The bakers reported the largest amount of holdings in the division, namely, 572,421 barrels; mills, elevators, and wholesale dealers coming second with 449,426 barrels. The Pacific States were in fourth place, with 1,058,016 barrels. Each of the other geographic divisions reported holdings ranging from about half a million barrels to a million. The total reported stocks of flour, by geographic divisions, is shown in graphic form in Diagram 7.

DIAGRAM 7.—TOTAL STOCKS OF FLOUR REPORTED FOR AUGUST 31, 1917—GEOGRAPHIC DISTRIBUTION.



Eight states reported nearly one-half of the total stocks of the country, New York leading with 812,896 barrels, followed by Pennsylvania, 659,438; Illinois, 639,126; and Nebraska, 634,915; while California, Texas, Minnesota, and Missouri each reported approximately one-half million barrels. It thus appears that stocks of flour were held to a great extent in states with large populations or where the larger mills and elevators are located. Diagram 8 illustrates graphically the total stocks of flour reported for the 20 most important states.

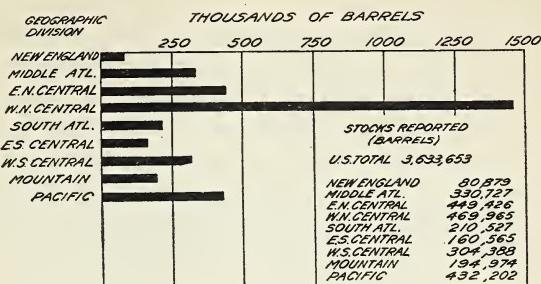
DIAGRAM 8.—TOTAL STOCKS OF FLOUR REPORTED FOR THE 20 MOST IMPORTANT STATES.



#### HOLDINGS OF MILLS, ELEVATORS, AND WHOLESALE GRAIN DEALERS.

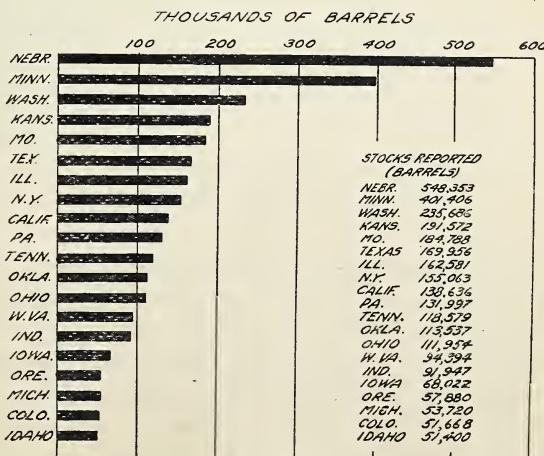
The stocks of flour reported by mills, elevators, and wholesale grain dealers were almost all held by the flour manufacturing or milling concerns, the holdings reported by this class of concerns being centered in the West North Central division of states. Hence this division again leads, with about 38.1 per cent of the total stocks of flour for the entire country held by mills, elevators, and wholesale dealers. Nebraska, Minnesota, Kansas, and Missouri contribute conspicuously to the total stocks reported by this division. The West South Central division ranks second, Texas alone holding more than one-half of the stocks reported. A graphic presentation of these holdings, by geographic divisions, may be seen in Diagram 9.

DIAGRAM 9.—STOCKS OF FLOUR REPORTED BY FLOUR MILLS, ELEVATORS, AND WHOLESALE GRAIN DEALERS—GEOGRAPHIC DISTRIBUTION.



Holdings by mills, elevators, and wholesale grain dealers in individual states show Nebraska as the only state reporting more than 500,000 barrels. Minnesota reported 401,406 and Washington 235,686 barrels. None of the other 20 important states, the holdings of which are shown graphically in Diagram 10, reported more than 200,000 barrels for this group of concerns.

DIAGRAM 10.—STOCKS OF FLOUR REPORTED BY FLOUR MILLS, ELEVATORS, AND WHOLESALE GRAIN DEALERS FOR THE 20 MOST IMPORTANT STATES.



**STOCKS HELD BY STORAGE WAREHOUSES.**

Of the 514,929 barrels reported by storage warehouses, the cold storage plants held less than 5 per cent, the general warehouses holding more than 95 per cent of the total. Nearly one-half of the warehouse stocks were located in the three states of New York, California, and Pennsylvania, these states reporting 98,650, 92,780, and 63,490 barrels, respectively. Maryland ranked fourth in warehouse stocks, with 36,572 barrels, and Massachusetts fifth, with 32,490 barrels. Missouri, Illinois, and Ohio reported, roughly, 30,000, 27,000, and 25,000 barrels, respectively. In no other states did the warehouse stocks reach 10,000 barrels.

**STOCKS HELD BY WHOLESALE GROCERS.**

Stocks held by wholesale grocers were the largest in the South Atlantic division, which reported 220,121 barrels, one-third of these holdings being reported from Georgia. The Middle Atlantic division reported 140,079 barrels; the West South Central, 126,061; the East South Central, 118,218; and the Pacific, 100,909 barrels. Each of the other divisions held less than 100,000 barrels.

More than half of the 958,628 barrels reported by wholesale grocers were held in 10 states, Oregon coming first with 82,143 barrels, followed by New York with 78,633; Georgia, 72,183; Pennsylvania, 48,988; Louisiana, 47,653; Arkansas, 46,725; Illinois, 45,294; Mississippi, 42,237; Massachusetts, 42,225; and Alabama, with 39,767 barrels.

**STOCKS HELD BY BAKERS.**

Bakers' stocks were especially large in the Middle Atlantic and the East North Central divisions of states, the stocks of each amounting to approximately 575,000 barrels.

Among individual states, New York, Illinois, and Pennsylvania each held bakers' stocks in excess of 200,000 barrels, while these holdings added to those of California, Ohio, and Massachusetts, each with over 100,000 barrels, constitute more than half of the total bakers' stocks for the entire

country. Diagrams 11 and 12 present in graphic form the holdings of bakers, by geographic divisions and for the 20 leading states, respectively.

DIAGRAM 11.—STOCKS OF FLOUR REPORTED BY BAKERS—GEOGRAPHIC DISTRIBUTION.

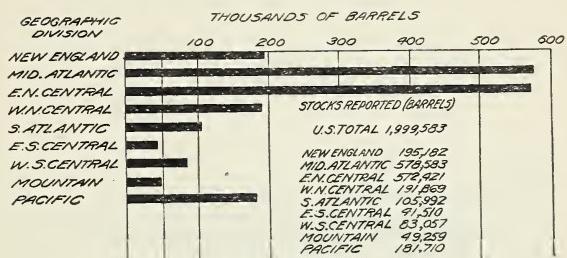
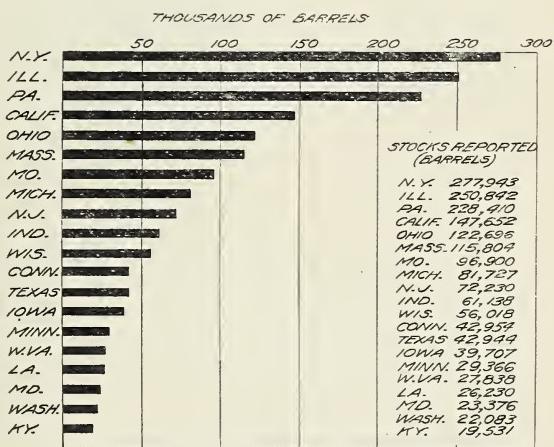


DIAGRAM 12.—STOCKS OF FLOUR REPORTED BY BAKERS, FOR THE 20 MOST IMPORTANT STATES.

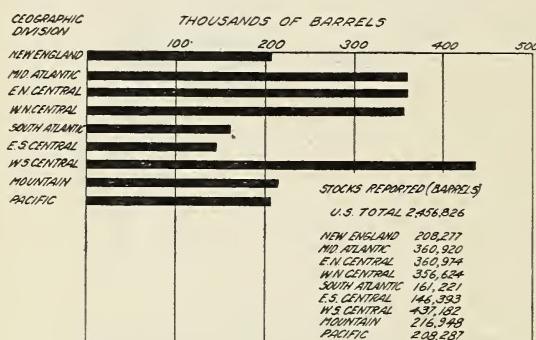


#### STOCKS HELD BY RETAIL DEALERS.

Retail dealers in the West South Central division of states held 437,182 barrels of flour, or 13.7 per cent of all retail stocks. The holdings of retailers reported for the East North Central, Middle Atlantic, and West North Central divisions each amounted to more than 350,000 barrels. Table 9 gives retail stocks reported by the different classes of retail dealers, for the

geographic divisions, as well as for individual states. The distribution of these stocks by geographic divisions is also shown in graphic form in Diagram 13.

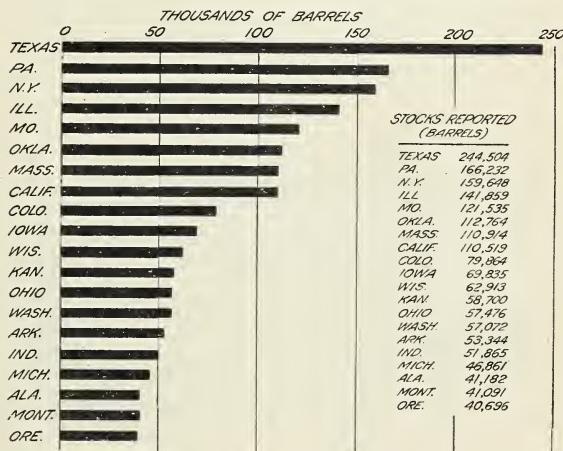
DIAGRAM 13.—STOCKS OF FLOUR REPORTED BY RETAIL DEALERS—GEOGRAPHIC DISTRIBUTION.



The retail dealers in Texas, as the table shows, held the largest stocks reported for any state, namely, 244,504 barrels. Of this amount, the retail grocers held 110,826 barrels and general stores, 100,372 barrels. The retail stocks of Pennsylvania were the second largest, amounting to 166,232 barrels, the bulk of which was distributed fairly evenly among retail grocers, general stores, and retail grain and flour dealers. Other states with over 100,000 barrels in retail stocks were New York, Illinois, Missouri, Oklahoma, Massachusetts, and California. Stocks of flour reported by retail dealers for the 20 most important states are shown graphically in Diagram 14.

In general, retail grocers reported larger total stocks than the general stores, except in the Southern and Mountain states, where general stores held the largest stocks among retail dealers. Only in the New England and the Middle Atlantic states do retail grain and flour dealers rank first in holdings among the different classes of retailers. Diagram 15 presents graphically the distribution of total retail stocks among the different classes of retailers.

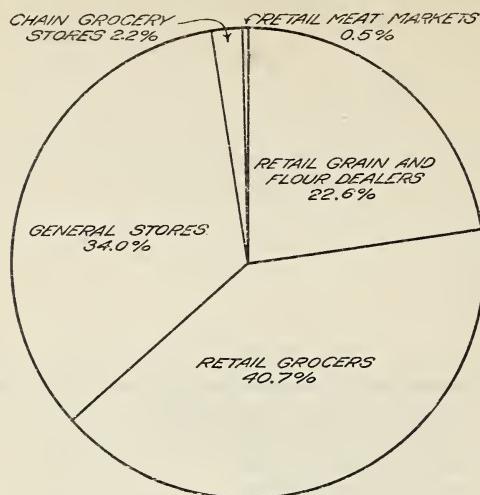
DIAGRAM 14.—STOCKS OF FLOUR REPORTED BY RETAIL DEALERS FOR THE 20 MOST IMPORTANT STATES.



#### COMPARATIVE HOLDINGS FOR 1917 AND 1916.

Among concerns furnishing data for both August 31, 1917, and August 31, 1916, a decrease in the total holdings of 24.3 per cent was indicated for 1917. These comparative holdings are shown by geographic divisions and by states, for each of the groups of concerns reporting flour, in Table 10. The decrease in holdings was general in all groups and classes of concerns, the greatest relative decreases being found in the retail and miscellaneous groups and the smallest relative decrease in the storage warehouse group. Comparative stocks for the two dates are represented graphically, by

DIAGRAM 15.—DISTRIBUTION OF STOCKS OF FLOUR REPORTED BY RETAIL DEALERS.

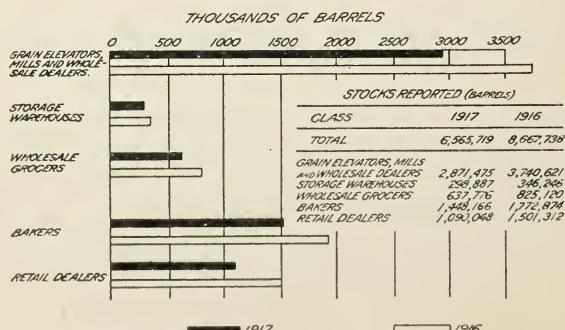


## STOCKS REPORTED (Barrels).

TOTAL.....	2,456,826
Retail grain and flour dealers.....	554,779
Retail grocers.....	999,089
General stores.....	836,755
Chain grocery stores.....	53,630
Retail meat markets.....	12,573

groups of concerns, in Diagram 16. The actual percentages of decrease for the different groups of firms were as follows: Flour mills, elevators, and wholesale grain dealers, 23.2 per cent; storage warehouses, 13.7 per

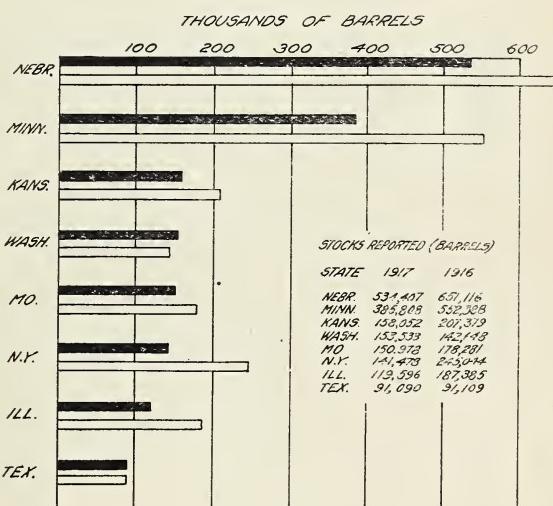
DIAGRAM 16.—STOCKS OF FLOUR REPORTED FOR AUGUST 31, 1917, AND AUGUST 31, 1916, BY IMPORTANT GROUPS OF FIRMS.



cent; wholesale grocers, 22.7 per cent; bakers, 18.3 per cent; retailers, 27.4 per cent; and miscellaneous, 54.4 per cent.

While the combined stocks for all groups of concerns showed decreases for all geographic divisions, the flour mills, elevators, and wholesale grain dealers reported a slight increase in holdings for the South Atlantic, the West South Central, and the Mountain states. The holdings of this group in all other divisions, showed decreases. The comparative holdings of the mills, elevators, and wholesale grain dealers are shown graphically for eight most important states in Diagram 17.

DIAGRAM 17.—STOCKS OF FLOUR REPORTED FOR AUGUST 31, 1917, AND AUGUST 31, 1916,  
BY GRAIN ELEVATORS, MILLS, AND WHOLESALE DEALERS, FOR THE EIGHT  
MOST IMPORTANT STATES.



Storage warehouses reported increased stocks in the Middle Atlantic division of states, most of which increase was reported for the state of New York. The West South Central division and the Mountain states also reported more flour in storage warehouses in 1917 than in 1916. In all other divisions, the stocks for this group showed a decrease.

The wholesale grocers and the bakers both reported a decrease in stocks for all geographic divisions, with the exception of the Mountain states, while the retail dealers as a group reported decreased stocks for each of the different geographic divisions.

## TABLES.

TABLE 6.—*Stocks of Flour Reported for August 31, 1917, with Comparative Figures for 1917 and 1916—United States Totals.*  
 [Food Survey of August 31, 1917.]

Class of business.	Total stocks reported for August 31, 1917.	Comparative figures—from firms reporting for both 1917 and 1916.	
		1917 stocks. Barrels. 9,869,980	1916 stocks. Barrels. 8,667,738
Total . . . . .	3,633,653	2,871,475	76.8
Flour mills, elevators, and wholesale grain dealers . . . . .	514,929	298,887	86.3
Storage warehouses . . . . .	23,294	13,301	95.3
Cold storages . . . . .	491,635	285,586	85.9
Warehouses . . . . .	958,628	637,776	77.3
Wholesale grocers . . . . .	1,999,583	1,448,166	81.7
Bakers . . . . .	2,456,826	1,090,048	72.6
Retail dealers . . . . .	554,779	380,160	68.4
Retail grain and flour dealers . . . . .	999,089	172,629	85.6
Retail grocers . . . . .	836,755	490,687	72.3
General stores . . . . .	53,630	39,235	71.8
Chain grocery stores . . . . .	12,573	7,337	69.7
Retail meat markets . . . . .	306,361	219,367	45.6
Miscellaneous . . . . .			481,565

## COMMERCIAL STOCKS OF WHEAT AND FLOUR.

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TABLE 7.—*Number of Firms Reporting Flour—United States Totals, by Class of Business.*  
 [Food Survey of August 31, 1917.]

Class of business.	Number of OK schedules received from classes of business handling flour.	Firms reporting flour.	
		Number.	Per cent of total OK schedules.
Total . . . . .	133,809	92,974	69.4
Flour mills, elevators, and wholesale grain dealers . . . . .	15,686	7,711	49.1
Storage warehouses . . . . .	1,102	429	38.9
Cold storages . . . . .	278	42	15.1
Warehouses . . . . .	824	387	47.0
Wholesale grocers . . . . .	4,793	2,973	62.0
Bakers, wholesale and retail . . . . .	13,112	12,514	95.4
Retail dealers . . . . .	85,464	66,420	77.7
Retail grain and flour dealers . . . . .	5,294	3,908	73.8
Retail grocers . . . . .	43,726	37,074	84.8
General stores . . . . .	26,856	23,718	88.3
Chain grocery stores . . . . .	904	771	85.3
Retail meat markets . . . . .	8,684	949	10.9
Miscellaneous . . . . .	10,330	2,927	28.3

TABLE 8.—*Stocks of Flour on Hand August 31, 1917—Statement for Important Groups of Firms, by Geographic Divisions and States.*

[Food Survey of August 31, 1917.]

## COMMERCIAL STOCKS OF WHEAT AND FLOUR.

Geographic division and state.	Grand total, <sup>1</sup>	Grain elevators, mills, and wholesale dealers.	Storage warehouses. <sup>2</sup>	Wholesale grocers.	Bakers.	Retail dealers. <sup>3</sup>
	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
United States . . . . .	9,869,980	3,633,653	514,929	958,628	1,999,583	2,456,826
<b>Geographic divisions:</b>						
New England . . . . .	629,575	80,879	45,561	78,343	195,182	208,277
Middle Atlantic . . . . .	1,647,074	330,727	165,820	140,079	578,583	360,920
East North Central . . . . .	1,596,666	419,426	66,770	98,013	572,421	360,974
West North Central . . . . .	2,182,138	1,469,965	36,931	33,770	191,869	356,624
South Atlantic . . . . .	765,021	210,527	56,928	220,121	105,992	161,221
East South Central . . . . .	479,724	160,565	10,955	118,218	41,510	146,393
West South Central . . . . .	979,526	304,388	12,191	126,061	83,057	437,182
Mountain . . . . .	532,240	194,974	14,586	43,114	49,259	216,948
Pacific . . . . .	1,058,016	432,202	105,187	100,909	181,710	208,287
<b>New England:</b>						
Maine . . . . .	57,232	14,034	4,149	5,522	7,002	23,764
New Hampshire . . . . .	46,971	5,442	198	7,573	7,904	22,479
Vermont . . . . .	43,000	18,450	75	1,751	4,371	15,601
Massachusetts . . . . .	347,421	32,820	32,490	42,225	115,804	110,914
Rhode Island . . . . .	38,315	3,548	6,376	4,535	16,537	7,296
Connecticut . . . . .	96,636	5,985	2,273	16,737	42,954	28,293
<b>Middle Atlantic:</b>						
New York . . . . .	812,896	155,063	98,650	78,633	277,943	159,648
New Jersey . . . . .	174,740	43,067	3,680	12,458	72,230	35,040
Pennsylvania . . . . .	659,438	131,997	63,490	48,988	228,410	166,232
<b>East North Central:</b>						
Ohio . . . . .	351,708	111,954	25,196	19,248	122,696	57,476
Indiana . . . . .	225,212	91,947	8,122	8,393	61,138	51,865
Illinois . . . . .	639,126	162,581	26,759	45,294	250,842	141,859
Michigan . . . . .	210,356	53,720	5,034	19,390	81,727	46,861
Wisconsin . . . . .	170,264	29,224	1,659	5,688	56,018	62,913



## COMMERCIAL STOCKS OF WHEAT AND FLOUR.

TABLE 9.—*Stocks of Flour on Hand August 31, 1917—Statement for Retail Dealers, by Geographic Divisions and States.*

[Food Survey of August 31, 1917.]

Geographic division and state.	Group total.	Retail grain and flour dealers.	Retail grocers.	General stores.	Chain grocery stores.	Retail meat markets.
	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.	Barrels.
United States . . . . .	2,456,826	554,779	999,089	836,755	53,630	12,573
<b>Geographic divisions:</b>						
New England . . . . .	208,277	86,596	75,414	28,509	12,902	4,856
Middle Atlantic . . . . .	360,920	134,203	128,686	73,704	22,743	1,584
East North Central . . . . .	360,974	98,601	156,400	95,077	8,071	2,825
West North Central . . . . .	356,624	72,460	141,822	140,075	1,506	761
South Atlantic . . . . .	161,221	16,838	63,901	76,605	2,986	891
East South Central . . . . .	146,393	16,371	63,581	64,755	1,440	246
West South Central . . . . .	437,182	47,089	193,614	193,895	2,173	411
Mountain . . . . .	216,948	45,149	73,096	97,949	20	734
Pacific . . . . .	208,287	37,472	102,575	66,186	1,789	265
<b>New England:</b>						
Maine . . . . .	23,764	5,552	11,329	6,077	224	582
New Hampshire . . . . .	22,479	3,383	6,909	10,697	44	1,446
Vermont . . . . .	15,601	8,503	3,454	3,231	316	97
Massachusetts . . . . .	110,914	61,293	36,154	4,119	6,918	2,430
Rhode Island . . . . .	7,226	242	5,298	844	791	51
Connecticut . . . . .	28,293	7,623	12,270	3,541	4,609	250
<b>Middle Atlantic:</b>						
New York . . . . .	159,648	85,466	50,178	17,848	5,850	306
New Jersey . . . . .	35,040	7,668	16,001	3,721	7,375	275
Pennsylvania . . . . .	166,232	41,069	62,507	52,135	9,518	1,003
<b>East North Central:</b>						
Ohio . . . . .	57,476	13,344	29,825	10,491	3,509	307
Indiana . . . . .	51,865	12,887	30,759	7,604	36	579
Illinois . . . . .	141,859	39,295	57,973	41,396	2,160	1,035
Michigan . . . . .	46,861	9,250	20,825	14,137	1,944	705
Wisconsin . . . . .	62,913	23,825	17,018	21,449	422	199

West North Central:	
Minnesota.....	32,334
Iowa.....	69,835
Missouri.....	121,535
North Dakota.....	22,412
South Dakota.....	14,503
Nebraska.....	37,305
Kansas.....	58,700
South Atlantic:	
Delaware.....	2,975
Maryland.....	12,701
District of Columbia.....	1,370
Virginia.....	16,818
West Virginia.....	27,381
North Carolina.....	35,082
South Carolina.....	32,039
Georgia.....	21,449
Florida.....	11,406
East South Central:	
Kentucky.....	34,954
Tennessee.....	35,874
Alabama.....	41,182
Mississippi.....	34,383
West South Central:	
Arkansas.....	53,344
Mississippi.....	26,570
Louisiana.....	112,764
Oklahoma.....	244,504
Mountain:	
Montana.....	41,091
Idaho.....	25,282
Wyoming.....	10,808
Colorado.....	79,864
New Mexico.....	23,802
Arizona.....	12,559
Utah.....	13,311
Nevada.....	10,231
Pacific:	
Washington.....	57,072
Oregon.....	40,696
California.....	110,519

TABLE 10.—Comparative Figures<sup>1</sup>—Statement for Important Groups of Firms, by Geographic Divisions and States.  
 (Section One)  
 [Food Survey of August 31, 1917.]

Geographic division and state.	Grand total, <sup>2</sup>		Flour mills, elevators, and wholesale grain dealers,		Storage warehouses,	
	1917.	1916.	1917.	1916.	Barrels.	1916.
United States . . . . .	Barrels. 6,565,719	Barrels. 8,667,738	Barrels. 2,871,475	Barrels. 3,740,621	Barrels. 298,887	Barrels. 346,246
<b>Geographic divisions:</b>						
New England . . . . .	396,994	511,163	69,001	115,443	13,425	21,585
Middle Atlantic . . . . .	1,123,451	1,667,146	274,760	471,185	83,517	69,540
East North Central . . . . .	1,090,141	1,644,180	320,935	545,753	44,784	75,616
West North Central . . . . .	1,757,764	2,235,740	1,340,005	1,704,240	32,362	34,809
South Atlantic . . . . .	514,837	632,273	187,753	137,307	45,131	66,848
East South Central . . . . .	269,038	334,916	100,934	146,270	36,668	4,026
West South Central . . . . .	437,991	576,793	147,482	142,857	9,102	6,134
Mountain . . . . .	319,140	338,083	176,372	171,856	3,179	2,843
Pacific . . . . .	656,363	727,444	254,233	305,710	63,719	64,845
<b>New England:</b>						
Maine . . . . .	39,016	45,905	11,736	9,598	4,025	4,902
New Hampshire . . . . .	15,859	14,466	2,454	830	173	200
Vermont . . . . .	30,294	79,414	16,731	63,795	75	120
Massachusetts . . . . .	239,065	282,202	32,022	31,172	4,743	6,342
Rhode Island . . . . .	24,584	37,571	3,496	6,664	3,249	9,400
Connecticut . . . . .	48,176	51,605	2,762	3,414	1,160	621
<b>Middle Atlantic:</b>						
New York . . . . .	586,551	979,689	141,478	245,044	63,568	48,999
New Jersey . . . . .	127,708	168,635	42,342	64,942	3,241	5,641
Pennsylvania . . . . .	409,192	518,802	90,940	161,199	16,708	14,900
<b>East North Central:</b>						
Ohio . . . . .	236,852	280,446	79,146	116,021	16,036	26,189
Indiana . . . . .	142,524	229,440	73,310	143,150	6,268	8,339
Illinois . . . . .	471,364	735,215	119,596	187,385	20,063	32,613
Michigan . . . . .	123,222	169,614	23,582	46,337	2,224	7,839
Wisconsin . . . . .	116,179	229,405	25,301	52,860	193	636

<b>West North Central:</b>							
Minnesota.....	447,345	611,128	385,808	552,388	264	1,880	
Iowa.....	143,023	164,929	53,604	56,929	1,401	2,831	
Missouri.....	318,419	414,672	150,978	178,281	29,858	29,544	
North Dakota.....	26,232	31,564	19,462	20,814	...	...	
South Dakota.....	46,062	54,049	37,694	37,333	99	238	
Nebraska.....	593,411	727,359	534,407	651,116	456	...	
Kansas.....	183,272	232,039	158,052	207,379	284	316	
<b>South Atlantic:</b>							
Delaware.....	8,500	27,189	1,442	689	...	...	
Maryland.....	87,515	120,385	22,871	33,817	33,407	44,693	
District of Columbia.....	20,991	51,239	6,642	16,820	73	...	
Virginia.....	66,465	106,933	26,889	31,711	7,401	18,227	
West Virginia.....	144,176	90,077	90,773	8,202	2,539	2,695	
North Carolina.....	34,865	40,604	8,054	7,947	29	35	
South Carolina.....	39,160	59,697	10,495	10,289	341	40	
Georgia.....	81,557	98,554	13,351	18,514	955	781	
Florida.....	31,608	37,595	7,236	9,318	386	377	
<b>East South Central:</b>							
Kentucky.....	46,182	55,084	20,336	26,221	1,935	2,391	
Tennessee.....	118,101	165,911	71,104	107,123	1,683	1,560	
Alabama.....	59,021	71,181	7,221	11,274	50	75	
Mississippi.....	45,734	42,740	2,273	1,652	...	...	
<b>West South Central:</b>							
Arkansas.....	269,080	64,631	5,307	5,525	266	670	
Louisiana.....	75,648	84,016	9,730	6,698	4,728	4,346	
Oklahoma.....	84,264	198,207	41,355	39,525	301	1,118	
Texas.....	231,999	229,939	91,090	91,109	3,807		
<b>Mountain:</b>							
Montana.....	75,694	77,951	42,976	45,290	920	577	
Idaho.....	75,969	63,296	49,053	38,151	522	510	
Wyoming.....	10,166	14,273	2,032	5,271	40	30	
Colorado.....	68,649	113,498	41,806	61,309	275	546	
New Mexico.....	18,501	19,490	839	844	947	430	
Arizona.....	13,923	16,003	1,484	2,090	300	600	
Utah.....	48,404	26,740	35,956	16,624	175	150	
Nevada.....	7,834	6,832	2,226	2,277	...	...	
<b>Pacific:</b>							
Washington.....	199,860	201,688	153,533	142,648	3,291	4,204	
Oregon.....	162,863	203,699	52,983	87,676	5,197	5,847	
California.....	293,640	322,057	47,717	75,386	55,231	57,794	

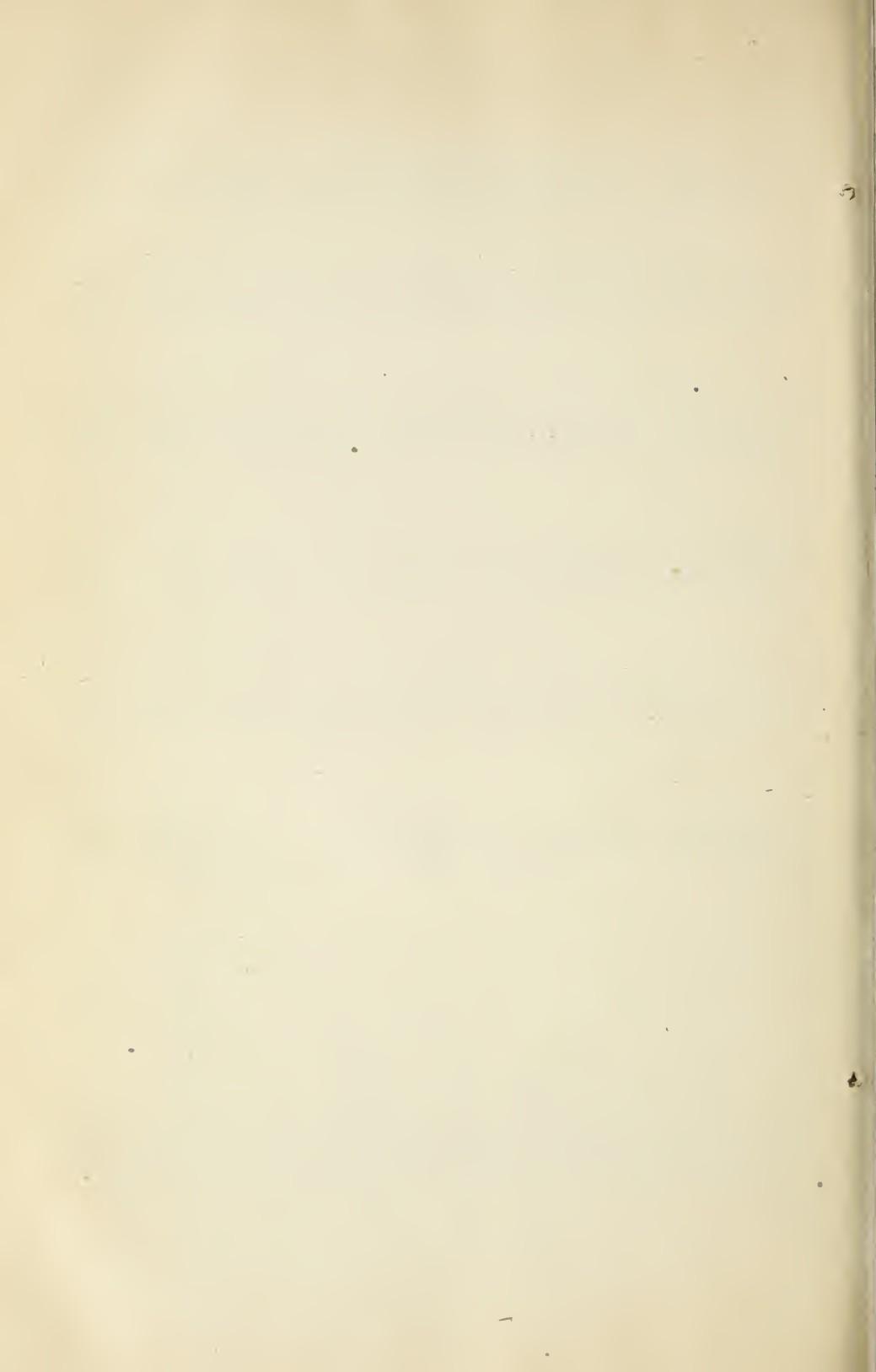
Based on notations from economic noncentres can be 44% 1017 and 1018

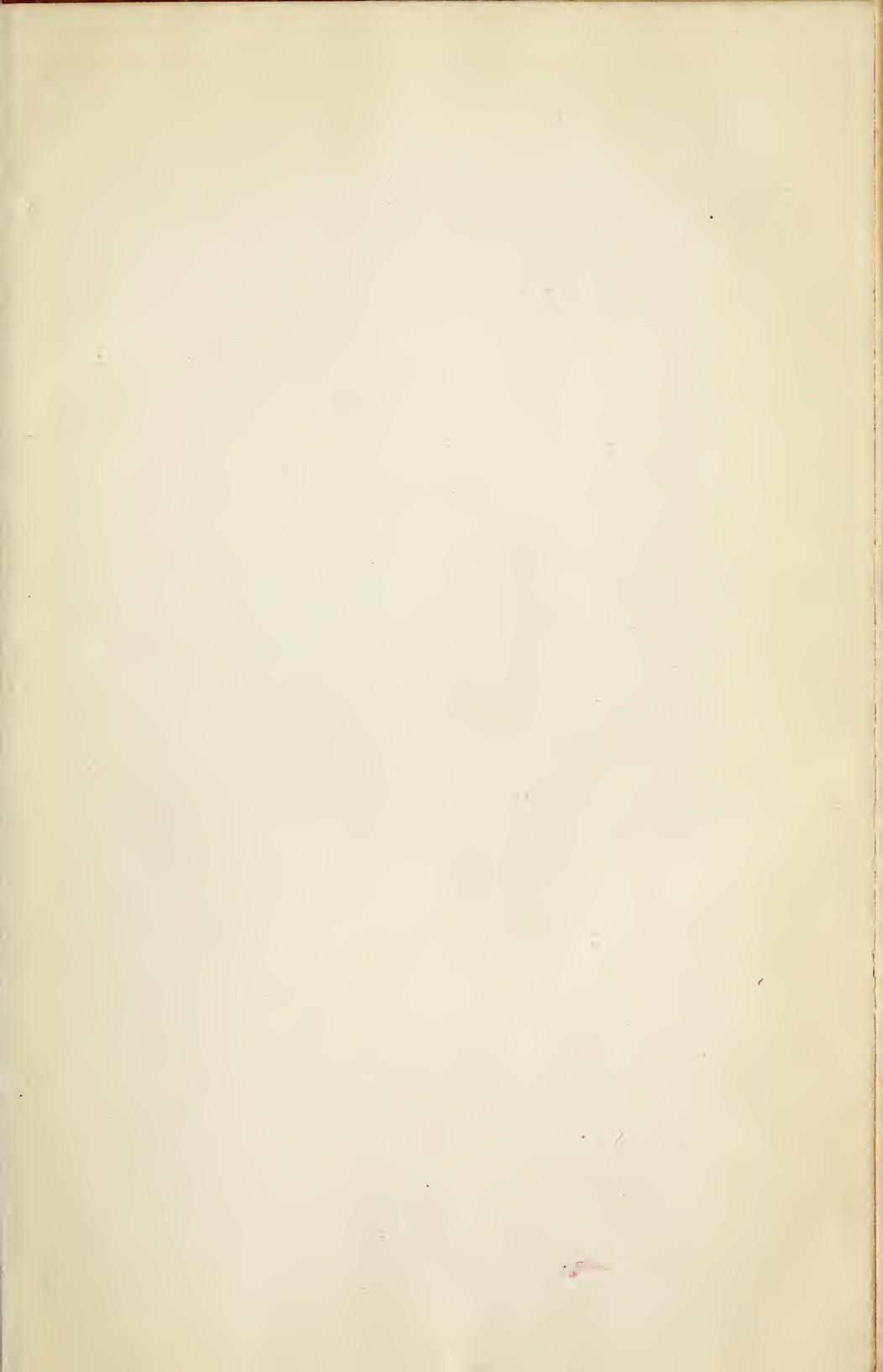
Barrels in returns from concerns reporting for January 1916, 327,285 barrels. Grand totals include flour reported by miscellaneous classes of business, as follows: For 1917, 140,050 barrels; for 1916, 327,285 barrels.

TABLE 10.—Comparative Figures—Statement for Important Groups of Firms, by Geographic Divisions and States.  
 (Section Two)  
 [Food Survey of August 31, 1917.]

Geographic division and state.	Wholesale grocers.		Bakers.		Retail dealers.	
	1917.	1916.	1917.	1916.	1917.	1916.
United States.....	Barrels, 637,776	Barrels, 825,120	Barrels, 1,448,166	Barrels, 1,772,874	Barrels, 1,090,048	Barrels, 1,501,312
<b>Geographic divisions:</b>						
New England.....	40,610	46,701	145,249	149,103	115,228	159,332
Middle Atlantic.....	91,594	113,576	419,115	487,593	200,464	311,730
East North Central.....	79,427	93,300	431,489	570,753	176,361	238,061
West North Central.....	25,830	40,147	139,255	164,759	147,150	205,105
South Atlantic.....	134,486	178,946	77,639	138,582	60,798	105,765
East South Central.....	84,488	89,231	21,868	24,130	56,565	68,954
West South Central.....	68,400	149,919	46,713	66,904	158,258	202,207
Mountain.....	16,167	33,639	33,639	29,356	86,727	115,517
Pacific.....	93,595	97,133	133,139	141,694	88,497	94,641
<b>New England:</b>						
Maine.....	4,334	4,485	6,262	7,284	11,755	19,032
New Hampshire.....	3,976	4,029	2,943	2,769	5,883	6,277
Vermont.....	509	778	1,624	2,072	9,022	10,704
Massachusetts.....	25,526	30,392	94,190	93,467	73,142	104,933
Rhode Island.....	1,737	2,219	12,806	15,722	3,242	3,524
Connecticut.....	4,528	4,798	27,424	27,789	12,184	14,862
<b>Middle Atlantic:</b>						
New York.....	63,396	205,312	270,259	270,259	98,819	163,553
New Jersey.....	5,242	6,380	51,704	54,538	17,985	29,837
Pennsylvania.....	37,511	43,800	162,099	162,796	83,660	118,340
<b>East North Central:</b>						
Ohio.....	14,497	16,516	92,345	88,372	23,609	23,554
Indiana.....	5,752	5,789	37,323	40,423	17,007	28,065
Illinois.....	38,705	45,090	205,909	345,298	80,688	115,528
Michigan.....	16,400	21,027	56,397	60,935	21,818	29,154
Wisconsin.....	4,073	4,878	39,515	35,725	33,239	41,760

<b>West North Central:</b>	
Minnesota.....	4,473
Iowa.....	10,494
Missouri.....	21,751
North Dakota.....	701
South Dakota.....	415
Nebraska.....	1,243
Kansas.....	1,590
<b>South Atlantic:</b>	
Delaware.....	1,432
Maryland.....	9,558
District of Columbia.....	685
Virginia.....	15,089
West Virginia.....	12,618
North Carolina.....	13,173
South Carolina.....	16,051
Georgia.....	16,692
Florida.....	50,014
18,225	19,105
<b>East South Central:</b>	
Kentucky.....	6,479
Tennessee.....	19,758
Alabama.....	30,417
Mississippi.....	27,834
<b>West South Central:</b>	
Arkansas.....	14,801
Louisiana.....	29,057
Oklahoma.....	3,837
Texas.....	20,705
<b>Mountain:</b>	
Montana.....	2,747
Idaho.....	3,655
Wyoming.....	245
Colorado.....	1,801
New Mexico.....	4,397
Arizona.....	2,594
Utah.....	831
Nevada.....	76
<b>Pacific:</b>	
Washington.....	5,521
Oregon.....	81,294
California.....	9,090

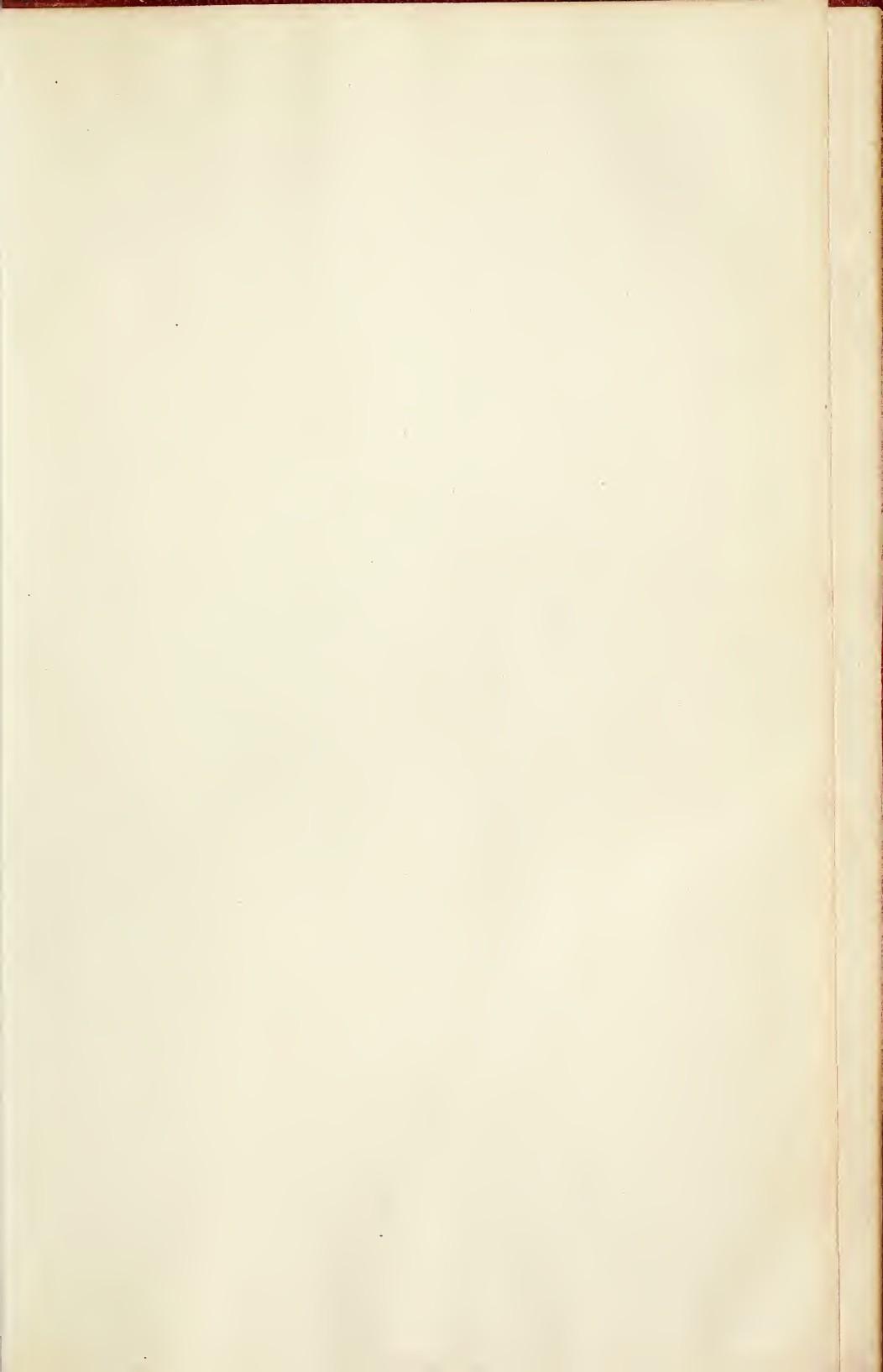




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